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developed a number of tractor-mounted machines: the PN-30 single-bottom plow, the KON-2.3 cultivator and hiller, the KRN-2.8 cultivator and fertilizer spreader, the SON-2.8 vegetable planter, the SNKh-2 beet puller for the KhTZ-7 tractor, the PN-2-30M double-bottom plow, the KPN-3 cultivator, the LDN-2.4 disk plow, the KN-5.4 row cultivator, the KON-2.8 cultivator and hiller for the U-2 tractor, and a number of other machines.

The following table shows the relative weights of tractor-mounted and tractor-drawn agricultural machines:

<u>Machine</u>	<u>Tractor-Mounted Model</u>	<u>Weight (in kg)</u>	<u>Tractor-Drawn Model</u>	<u>Weight (in kg)</u>
Plow	PN-2-30M	200	P-3-30	540
Cultivator	KPN-3.0	375	KP-3	585
Cultivator and hiller	KON-2.8	300	KUTS-2.8	500
Row cultivator	KN-5.4	710	KPS-5.4	930
Disk plow	LDN-2.4	308	LBD-4.5	900

[The foregoing article was written by A. V. Chumak, Chief Engineer, VISKHOM.]

DESIGN, IMPROVE FARM MACHINES -- Moscow, Moskovskiy Komsomolets, 4 Oct 53

G. Gin'ko, Academician-Secretary, VISKHOM (All-Union Scientific Research Institute of Agricultural Machine Building), states that VISKHOM and other organizations are continually designing new agricultural machines and improving old ones.

The Smolenskaya Oblast Experimental Station is testing a plow with a 60-centimeter plowing depth. The plow was designed by Academician V. P. Mosolov of VISKHOM.

The SKG-4 potato planter, designed by VISKHOM and the Ryazan' Ryazssel'mash Agricultural Machine Building Plant, has been widely used in 1953. In Moskovskaya Oblast, over 60,000 hectares of potato crop were planted by the SKG-4 potato planter. Designers have made many improvements on the planter and, by spring of 1954, tens of thousands of improved SKG-4 potato planters will be delivered to kolkhozes and sovkhozes.

The SUB-46 grain drill, produced by the Kirovograd Krasnaya Zvezda Agricultural Machine Building Plant, has been supplied to many kolkhozes. Areas planted by the SUB-48 grain drill have shown a considerable increase in crop yields.

The TUR-7 fertilizer spreader, designed by the Gomel Gomsel'mash Agricultural Machine Building Plant, is being tested in the experimental station of the All-Union Academy of Agricultural Sciences imeni Lenin.

The Leningrad branch of VISKHOM is working on designs of the ASP-2.5 straight-through combine for northern regions.

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The STU-0.7 tractor-mounted hay stacker, designed by the All-Union Scientific Research Institute of Mechanization and Electrification of State Farms, has shown good results in tests.

The SPK-0.7 mobile grain dryer, designed in 1952 and produced in 1953, has shown excellent results. In 1953, one dryer has cleaned 600 tons of grain in three kolkhozes in Moskovskaya Oblast. The SPK-0.7 grain dryer requires only one third the metal used in the production of other grain dryers.

Production of the OSM-3.0 grain cleaner has begun in 1953. The cleaner is equipped with attachments for cleaning seeds of all crops.

Moscow, Komsomol'skaya Pravda, 24 Oct 54

Designers of VISKHOM are intensively working on drawings for the following new machines: the DDP-30S sprinkling machine, the SON-2.8 tractor-mounted planter, the IG-9 machine for making seedling pots out of peat, and others. The drawings, when completed, will be sent to the plants which are to produce these machines.

Many new machines and devices designed by VISKHOM are now being produced or tested. Recently, a top-removing device for sugar-beet harvesters has been presented to plants for production.

The SK-2.6 forage harvester is now being tested in the Moscow area. The forage harvester has a working width of 2.6 meters. It is intended for tall stalk crops such as corn and sunflower. The harvester chops up to 80 tons of silage in one hour.

In the very near future, animal-husbandry farms will be supplied with various types of machines for feed processing. Drawings of a grinder have already been supplied to six plants in the Ukraine and six plants in the Urals.

Several models of a new vegetable planter are being developed. This planter covers vegetable seed with a strip of paper to speed germination and check weed growth.

The experimental shop of VISKHOM is testing a new potato grader. The grader sorts potatoes into three sizes: large, medium, and small. It sorts 10 tons of potatoes in one hour.

TEST AGRICULTURAL MACHINES -- Tbilisi, Zarya Vostoka, 28 Oct 53

The Georgian SSR machine testing station, located several kilometers from Tbilisi, tests new agricultural machines designed by construction bureaus of various Soviet enterprises.

The SRN-2 two-row tractor-mounted seedling planter has been undergoing tests for 3 years. The planter was designed by the Rostov on Don Krasnyy Aksay Plant. Improvements suggested by the testing station helped to make the planter a very good machine.

In 1953, the station tested the SKG-4 checkrow potato planter. In 1954, Soviet agricultural machine building plants will produce 10,000 SKG-4 planters.

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